



Express Mail No. EV336653444US
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Soumitra S. Ghosh et al.
Application No. : 10/741,823
Filed : December 19, 2003
For : LIGANDS OF ADENINE NUCLEOTIDE TRANSLOCASE (ANT)
AND COMPOSITIONS AND METHODS RELATED THERETO

Art Unit : 1614
Docket No. : 660088.467
Date : May 28, 2004

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Form PTO-1449 (copies of the cited references are enclosed). As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Applicants note that reference AI (WO 93/24442) is written in Japanese. Accordingly, Applicants respectfully direct the Examiner's attention to the front cover of the

Application No. 10/741,823

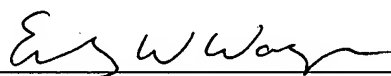
document and the claims. The cover page sets forth an English language abstract and the claims depict the chemical structures claimed.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



Emily W. Wagner
Registration No. 50,922

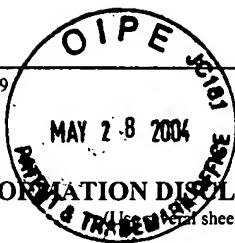
EWV:ljt

Enclosures:

Form PTO-1449 (2 Sheets)
Cited References (24)

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Sheet 1 of 2

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

660088.467

APPLICATION NO.

10/741,823

INFORMATION DISCLOSURE STATEMENT

(Use additional sheets if necessary)

APPLICANTS

Soumitra S. Ghosh et al.

FILING DATE

December 19, 2003

GROUP ART UNIT

1614

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,217,994	06/08/93	Egbertson et al.	514	484	
	AB	5,426,196	06/20/95	Fang	549	307	
	AC	5,684,015	11/04/97	Mederski et al.	514	303	
	AD	5,888,941	03/30/99	Bartoli et al.	504	262	
	AE	5,990,133	11/23/99	Gaster et al.	514	337	
	AF	6,274,628	08/14/01	Soll et al.	514	620	
	AG	6,344,466	02/05/02	Soll et al.	514	331	
	AH						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AI	WO 93/24442	12/09/93	WIPO		X
	AJ	WO 99/36398	07/22/99	WIPO		
	AK	WO 01/04087	01/18/01	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AL	Andreyev, A.Y. et al., "The ATP/ADP-antiporter is involved in the uncoupling effect of fatty acids on mitochondria," <i>European Journal of Biochemistry</i> 182: 585-592, 1989. ✓
	AM	Beutner, G. et al., "Complexes between porin, hexokinase, mitochondrial creatine kinase and adenylate translocator display properties of the permeability transition pore. Implication for regulation of permeability transition by the kinases," <i>Biochimica et Biophysica Acta</i> 1368(1): 7-18, 1998. ✓
	AN	Boveris and Chance, "The Mitochondrial Generation of Hydrogen Peroxide," <i>The Biochemical Journal</i> 134(3): 707-716, 1973. ✓
	AO	Farrelly, E. et al., "A High-Throughput Assay for Mitochondrial Membrane Potential in Permeabilized Yeast Cells," <i>Analytical Biochemistry</i> 293(2): 269-276, June 15, 2001. ✓
	AP	Green and Reed, "Mitochondria and Apoptosis," <i>Science</i> 281:1309-1312, August 28, 1998. ✓

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 660088.467	APPLICATION NO. 10/741,823
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Soumitra S. Ghosh et al.	
		FILING DATE December 19, 2003	GROUP ART UNIT 1614

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BA						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
BB					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BC	Korshunov, S.S. et al., "Fatty acids as natural uncouplers preventing generation of O ₂ ⁻ and H ₂ O ₂ by mitochondria in the resting state," <i>FEBS Letters</i> 435(2-3): 215-218, 1998.
BD	Korshunov, S.S. et al., "High protonic potential actuates a mechanism of production of reactive oxygen species in mitochondria," <i>FEBS Letters</i> 416(1): 15-18, 1997.
BE	Kroemer, G. et al., "The Mitochondrial Death/Life Regulator in Apoptosis and Necrosis," <i>Annual Review of Physiology</i> 60: 619-642, 1998.
BF	Morin D. et al., "Mitochondria as target for antiischemic drugs," <i>Adv. Drug Deliv. Rev.</i> 49(1-2): 151-174, 2001.
BG	Obatomi and Bach et al., "Inhibition of mitochondrial respiration and oxygen uptake in isolated rat renal tubular fragments by atractyloside," <i>Toxicology Letters</i> 89(2): 155-161, December 16, 1996.
BH	Skulachev, V.P., "Fatty acid circuit as a physiological mechanism of uncoupling of oxidative phosphorylation," <i>FEBS Letters</i> 294(3): 158-162, December 1991.
BI	Skulachev, V.P., "Why are mitochondria involved in apoptosis? Permeability transition pores and apoptosis as selective mechanisms to eliminate superoxide-producing mitochondria and cell," <i>FEBS Letters</i> 397(1): 7-10, 1996.
BJ	Wojtczak, L. et al., "Protonophoric Activity of Fatty Acid Analogs and Derivatives in the Inner Mitochondrial Membrane: A Further Argument for the Fatty Acid Cycling Model," <i>Archives of Biochemistry and Biophysics</i> 357(1): 76-84, September 1, 1998.
BK	Yu, X.X. et al., "Characterization of novel UCP5/BMCP1 isoforms and differential regulation of UCP4 and UCP5 expression through dietary or temperature manipulation," <i>The FASEB Journal</i> 14: 1611-1618, August 2000.
BL	

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DATE CONSIDERED

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